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(54) Title: METHODS AND DEVICES FOR COMPOUND SCREENING

(57) Abstract: The present invention relates methods for screening of compounds for drug candidates comprising: (a) providing a solid porous support having first and second surfaces and at least one area with a plurality of through-going channels wherein said solid porous support comprises compounds within predefined regions of the said support; wherein said compounds within the porous structure are stored in dried condition, wherein said dried condition is obtained after a drying treatment by slow evaporation, vacuum drying or by blowing air or inert gas above and below said solid support; (b) providing a liquid sample comprising at least one molecular target; (c) mixing said dried compounds of step (a) with said liquid sample of step (b) by flow of the sample through said predefined regions of the solid support through the said through-going channels; (d) screening said compounds for drug candidates; said screening is by monitoring in an assay a compound-target interaction by measurement of a signal, said signal indicating interaction between a compound and a molecular target; (e) optionally screening for a compound having a putative effect on a drug candidate identified in step (d). The present invention further relates to the uses of said methods and solid supports and methods for the manufacture of said solid supports for carrying out said methods as well as to the use of a porous support for the preparation of a kit for carrying out said methods.



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